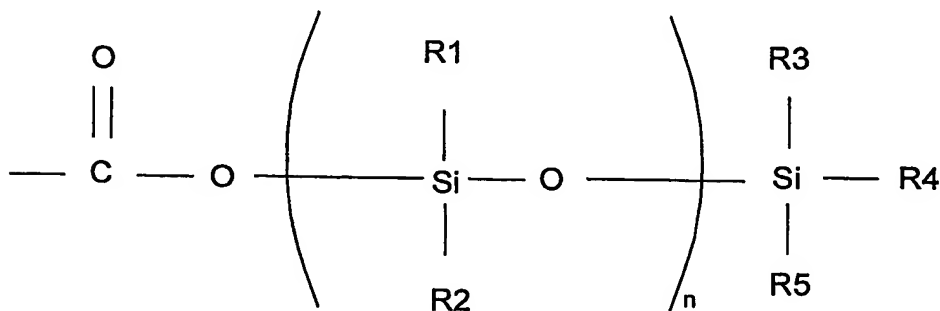


Claims

1. Silyl ester copolymer solution having a solids content of at least 55 weight per cent and a viscosity of less than 20 poise at 25°C, comprising
 5 a silyl ester copolymer having a weight-average molecular weight between 1,500 and 20,000.
2. Silyl ester copolymer solution according to claim 1, characterised in that
 10 the solids content of the solution is not more than 80 weight per cent.
3. Silyl ester copolymer solution according to claim 1, characterised in that
 it comprises a silyl ester copolymer having a weight-average molecular
 weight of less than 20,000, a polydispersity of less than 3.0, a glass
 transition temperature below 90°C, with less than 70 weight per cent of
 15 said silyl ester copolymer consisting of side chains having a silyl ester
 functionality.
4. Silyl ester copolymer solution according to any one of claims 1 to 3,
 20 characterised in that the silyl ester copolymer is a copolymer comprising
 at least one side chain bearing at least one terminal group of the
 formula:

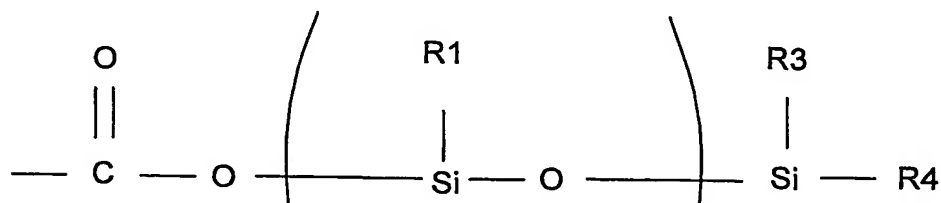


wherein n is 0 or an integer of 1 to 50, and R1, R2, R3, R4, and R5 are each independently selected from the group consisting of optionally substituted C₁₋₂₀-alkyl, optionally substituted C₁₋₂₀-alkoxy, optionally substituted aryl, and optionally substituted aryloxy.

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5. Silyl ester copolymer solution according to claim 4, characterised in that n = 0 and R3, R4, and R5 are the same or different and represent methyl, isopropyl, n-butyl, isobutyl, or phenyl.
- 10 6. Antifouling coating composition having a VOC below 400 grams per litre and a viscosity of less than 20 poise at 25°C comprising a silyl ester copolymer and an ingredient having biocidal properties for aquatic organisms.
- 15 7. Antifouling coating composition according to claim 6, characterised in that the silyl ester copolymer is a silyl ester copolymer having a weight-average molecular weight less of than 20,000, a polydispersity of less than 3.0, a glass transition temperature below 90°C, with less than 70 weight per cent of said silyl ester copolymer consisting of side chains
- 20 having a silyl ester functionality.
8. Antifouling coating composition according to claim 6 or 7, characterised in that the silyl ester copolymer is a copolymer comprising at least one side chain bearing at least one terminal group of the formula:

25



wherein n is 0 or an integer of 1 to 50, and R1, R2, R3, R4, and R5 are each independently selected from the group consisting of optionally substituted C₁₋₂₀-alkyl, optionally substituted C₁₋₂₀-alkoxy, optionally substituted aryl, and optionally substituted aryloxy.

5

9. Antifouling coating composition according to claim 8, characterised in that n = 0 and R3, R4, and R5 are the same or different and represent methyl, isopropyl, n-butyl, isobutyl, or phenyl.

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10. Antifouling coating composition according to any one of claims 6 to 9, characterised in that the composition further comprises one or more polymers or resins selected from the group consisting of compounds which are free of triorganosilyl ester groups and triorganotin groups but are reactive in seawater, materials which are slightly soluble or water-sensitive in seawater, and materials which are insoluble in seawater.

15

11. Antifouling coating composition according to claim 10, characterised in that the composition comprises a rosin material as the material that is slightly soluble or water-sensitive in seawater.

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12. Substrate or structure coated with an antifouling coating composition according to any one of claims 6 to 11.